

INTERNATIONAL SEARCH REPORT

Internat Application No

PCT/GB 02/00178

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B17/06 E21B4/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 E21B F03B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 4 485 880 A (MAKOHL FRIEDHELM) 4 December 1984 (1984-12-04) the whole document	1-10, 12-30
Y	US 2 204 586 A (GRAU HERBERT E) 18 June 1940 (1940-06-18) the whole document	1-10, 12-30
A	FR 2 332 412 A (ALSTHOM CGEE) 17 June 1977 (1977-06-17) page 1, line 6 - line 27 page 2, line 22 - line 34; figures	1,2,5,25
A	GB 2 055 927 A (ENG ENTERPR) 11 March 1981 (1981-03-11) page 1, line 20 - line 22 page 1, line 55 - line 112; figures	1,2,5,25
-/-		

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
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T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

Z document member of the same patent family

Date of the actual completion of the international search

13 March 2002

Date of mailing of the international search report

05/04/2002

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PCT/GB 02/00178

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	FR 2 244 904 A (ALSTHOM CGEE) 18 Apr 11 1975 (1975-04-18) page 1, line 20 - line 31; figure 1 ---	1,2,5,25
A	FR 2 258 515 A (ALSTHOM CGEE) 18 August 1975 (1975-08-18) page 1, line 1 - line 17; figures ---	1,2,5,25
A	US 2 033 409 A (WILKINSON CLEVELAND J) 10 March 1936 (1936-03-10) the whole document -----	1,2,5,25

INTERNATIONAL SEARCH REPORT

Intern Application No

PCT/GB 02/00178

Patent document cited in search report		Publication date	Patent family member()	Publication date
US 4485880	A	04-12-1984	DE 3233980 C1	29-09-1983
			BE 897188 A1	17-10-1983
			CA 1196626 A1	12-11-1985
			FR 2532986 A1	16-03-1984
			GB 2127065 A ,B	04-04-1984
US 2204586	A	18-06-1940	NONE	
FR 2332412	A	17-06-1977	FR 2332412 A1	17-06-1977
GB 2055927	A	11-03-1981	BE 884025 A1	16-10-1980
			FR 2463256 A1	20-02-1981
			JP 56028989 A	23-03-1981
			NL 8003264 A	12-02-1981
FR 2244904	A	18-04-1975	FR 2244904 A1	18-04-1975
FR 2258515	A	18-08-1975	FR 2258515 A1	18-08-1975
US 2033409	A	10-03-1936	NONE	